

WHAT IS CLAIMED IS:

1. A cord reel box with recharging unit, comprising:

a housing formed with a cavity therein;

a rotating plate pivotally mounted in the cavity;

5 a volute spring arranged between the housing and the rotating plate;

a communication cord being wound in the rotating plate, one end of the communication cord passing through the housing;

a recharging unit mounted in the housing, having a gear mechanism and a regenerator, the gear mechanism assembled between the rotating  
10 plate and the regenerator;

a pressing device pivotally mounted on one side of the housing, and the gear mechanism assembled between the pressing device and the regenerator; and

an AC plug mounted on the housing and electrically connecting  
15 with a PCB disposed in the housing, the PCB having a transformer mounted thereon, and the communication cord electrically connecting with the PCB;

whereby when the communication cord is pulled, the rotating plate rotates and drives the regenerator via the gear mechanism for producing  
20 electric power, when the pressing device is pressed, the pressing device drives the regenerator via the gear mechanism for producing electric power, and electric power is input via the AC plug.

2. The cord reel box with recharging unit as claimed in the claim 1, wherein the housing has a first half-housing, a second half-housing  
25 connecting with the first half-housing, a pivoting shaft disposed in the

cavity of the housing, a cord slot formed on the pivoting shaft, and a cord outlet formed on one side of the housing, wherein the rotating plate has a pivoting hole pivotally mounted on the pivoting shaft, a first and a second rings respectively formed on two sides of the rotating plate, and wherein the first ring is formed with an engaging cutout for engaging with a hooking end of the volute spring, one end of the communication cord passes through the cord slot of the pivoting shaft and is wound on the pivoting shaft and on the second ring, and extends outside the cord outlet of the housing.

3. The cord reel box with recharging unit as claimed in the claim 1, wherein the housing is formed with a storage groove and an engaging device on an outside thereof.

4. The cord reel box with recharging unit as claimed in the claim 1, wherein the recharging unit further comprises an accumulator, and the generator connects with the accumulator via a connecting cord.

5. The cord reel box with recharging unit as claimed in the claim 1, wherein the pressing device comprises a handle formed with a receiving space therein and pivotally mounted on one side of the housing via one end thereof, a folding portion is received in the receiving space, an elastic element is installed between the handle and the housing, an arc rack is connected on an inside surface of the handle and engaged with the gear mechanism, and the folding portion is stretchable from the receiving space.

6. The cord reel box with recharging unit as claimed in the claim 1, wherein the gear mechanism comprises a first gear for driving the

rotating plate and a second gear coaxially disposed on one side of the first gear, and wherein a first non-return mechanism is installed between the housing and the first gear, and a second non-return mechanism is installed between the first gear and the second gear.

5           7. The cord reel box with recharging unit as claimed in the claim 1, wherein the gear mechanism comprises a third gear formed with a stem, the stem is slidably installed in a switching channel of the housing, and the third gear is thereby detachably engaged with the first gear.

          8. The cord reel box with recharging unit as claimed in the claim 1,  
10 wherein the communication cord is connected with a connector.

          9. The cord reel box with recharging unit as claimed in the claim 1, wherein the communication cord is connected with an earphone.

          10. The cord reel box with recharging unit as claimed in the claim 1, wherein the volute spring is a flat spring.

15           11. The cord reel box with recharging unit as claimed in the claim 1, wherein the volute spring is installed in the rotating plate.